

Express Mail Label

517914403415

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)  
Rec'd PCT/PTO 08 OCT 2004

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
23 October 2003 (23.10.2003)

PCT

(10) International Publication Number  
WO 03/087348 A1

(51) International Patent Classification<sup>7</sup>: C12N 5/00, 5/02

(21) International Application Number: PCT/US03/10735

(22) International Filing Date: 8 April 2003 (08.04.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/370,848 8 April 2002 (08.04.2002) US  
60/435,138 20 December 2002 (20.12.2002) US

(71) Applicant (for all designated States except US): THE JOHNS HOPKINS UNIVERSITY [US/US]; School of Medicine, 2024 East Monument Street, Suite 2-100, Baltimore, MD 21205 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): RODRIGUEZ, Ronald [US/US]; 3302 Sang Road, Glenwood, MD 21738 (US). CHOWDHURY, Wasim, Haider [BD/US]; 1258 Stevens Avenue, 2nd Flr., Baltimore, MD 21227 (US).

(74) Agents: ROSENFIELD, Jennifer, K. et al.; Edwards & Angell, LLP, P.O. Box 9169, Boston, MA 02209 (US).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 03/087348 A1

(54) Title: PACKAGING CELL LINE FOR DIPHTHERIA TOXIN EXPRESSING NON-REPLICATING ADENOVIRUS

(57) Abstract: The invention provides a packaging cell line for production of diphtheria toxin (DT) expressing, non-replicating adenovirus for use in suicide gene therapy of cancer cells, as well as production of immunotoxins. Also provided are methods for producing diphtheria toxin (DT) expressing, non-replicating adenovirus, methods for producing immunotoxins, and adenovirus and immunotoxins produced by those methods. Further provided are methods for making a cell resistant to diphtheria toxin.